



UAB

Front Surround System

YAS-103 YAS-93

Owner's Manual

PDF versions of this manual can be downloaded from the following website.
<http://download.yamaha.com/>

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About this manual

- Illustrations used in this manual refer to the YAS-103. Instructions are common to both YAS-103 and YAS-93, except where otherwise specified, such as "YAS-103 only."

Marks used in this manual

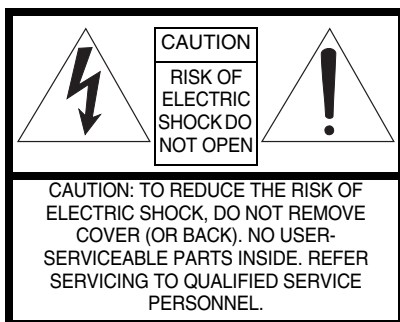
NOTE

This indicates precautions for use of the product and its feature limitations.

HINT

This indicates supplementary explanations for better use.

IMPORTANT SAFETY INSTRUCTIONS



Explanation of Graphical Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT

Please record the serial number of this unit in the space below.

MODEL:

Serial No.:

The serial number is located on the rear of the unit. Retain this Owner's Manual in a safe place for future reference.

FOR CANADIAN CUSTOMERS

To prevent electric shock, match wide blade of plug to wide slot and fully insert.
CAN ICES-3 (B)/NMB-3 (B)

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



We Want You Listening For A Lifetime



Yamaha and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion – and, most importantly, without affecting your sensitive hearing. Since hearing damage from loud sounds is often undetectable until it is too late, Yamaha and the Electronic Industries Association's Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels.

FCC INFORMATION (for US customers)

- 1 **IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!** This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.
- 2 **IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
- 3 **NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.
- 4 Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:
- 5 Relocate either this product or the device that is being affected by the interference.
- 6 Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.
- 7 In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.
- 8 If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America A/V Division 6600 Orangethorpe Ave., Buena Park, CA 90620.
- 9 The above statements apply **ONLY** to those products distributed by Yamaha Corporation of America or its subsidiaries.

- This device complies with Part 15 of the FCC Rules and RSSGen of IC Rules.
 - Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received including interference that may cause undesired operation.
- See the "Troubleshooting" section at the end of this manual if interference to radio reception is suspected.

FCC WARNING

Change or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:


- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC/IC radiation exposure limits set forth for uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated with at least 20 cm and more between the radiator and person's body (excluding extremities: hands, wrists, feet and ankles). This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

CAUTION: READ THIS BEFORE OPERATING YOUR UNIT.

- To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- Install this unit in a well ventilated, cool, dry, clean place - away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. For proper ventilation, allow the following minimum clearances.
Top: 10 cm (4 in), Rear: 10 cm (4 in), Sides: 10 cm (4 in)
- Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.
- Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in an environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.
- Avoid installing this unit where foreign objects may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
 - Other components, as they may cause damage and/or discoloration on the surface of this unit.
 - Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
 - Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.
- Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.
- Do not plug in this unit to a wall outlet until all connections are complete.
- Do not operate this unit upside-down. It may overheat, possibly causing damage.
- Do not use force on switches, knobs and/or cords.
- When disconnecting the power cable from the wall outlet, grasp the plug; do not pull the cable.
- Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. Yamaha will not be

held responsible for any damage resulting from use of this unit with a voltage other than specified.

- To prevent damage by lightning, keep the power cable and outdoor antennas disconnected from a wall outlet or the unit during a lightning storm.
- Do not attempt to modify or fix this unit. Contact qualified Yamaha service personnel when any service is needed. The cabinet should never be opened for any reasons.
- When not planning to use this unit for long periods of time (i.e. vacation), disconnect the AC power plug from the wall outlet.
- Be sure to read the “Troubleshooting” section on common operating errors before concluding that this unit is faulty.
- Before moving this unit, press  to set this unit in standby mode, and disconnect the power supply cable from the wall outlet.
- Condensation will form when the surrounding temperature changes suddenly. Disconnect the power supply cable from the outlet, then leave the unit alone.
- Install this unit near the wall outlet and where the AC power plug can be reached easily.
- The batteries shall not be exposed to excessive heat such as sunshine, fire or like.
- Secure placement or installation is the owner's responsibility. Yamaha shall not be liable for any accident caused by improper placement or installation of speakers.

Notes on remote controls and batteries


- Do not spill water or other liquids on the remote control.
- Do not drop the remote control.
- Do not leave or store the remote control in the following places:
 - places of high humidity, such as near a bath
 - places of high temperatures, such as near a heater or a stove
 - places of extremely low temperatures
 - dusty places
- Do not expose the remote control sensor of this unit to direct sunlight or lighting such as inverted fluorescent lamps.
- If the batteries grow old, the effective operation range of the remote control decreases

considerably. If this happens, replace the batteries with two new ones as soon as possible.

- Do not use old batteries together with new ones.
- Do not use different types of batteries (such as alkaline and manganese batteries) together. Read the packaging carefully as these different types of batteries may have the same shape and color.
- Exhausted batteries may leak. If the batteries have leaked, dispose of them immediately. Avoid touching the leaked material or letting it come into contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.
- Do not throw away batteries with general house waste. Dispose of them correctly in accordance with your local regulations.
- Keep batteries away from children. If a battery is accidentally swallowed, contact your doctor immediately.
- When not planning to use the remote control for long periods of time, remove the batteries from the remote control.
- Do not charge or disassemble the supplied batteries.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if you turn off this unit by . In this state, this unit is designed to consume a very small quantity of power.

(Power key)

Turns on the power of this unit or sets it to the standby mode.

(YAS-103 only)

Do not use this unit within 22 cm (9 inches) of persons with a heart pacemaker implant or defibrillator implant.

(YAS-103 only)

Radio waves may affect electro-medical devices. Do not use this unit near medical devices or inside medical facilities.

We, Yamaha Music Europe GmbH hereby declare that this unit is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.



FOR U.K. CUSTOMERS

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described below.

NOTE

The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

SPECIAL INSTRUCTIONS FOR U.K. MODEL

IMPORTANT

THE WIRES IN THE MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

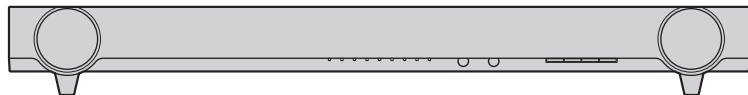
Blue: NEUTRAL
Brown: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

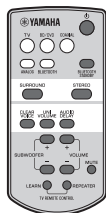
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Making sure that neither core is connected to the earth terminal of the three pin plug.

Supplied items

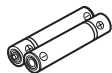
Make sure you have received all of the following items.



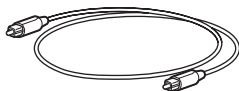
Sound bar



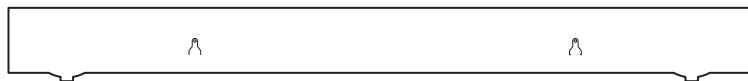
Remote control



Battery x 2
(AAA, R03, UM4)



Optical cable (1.5 m [4.9 ft])



Mounting template

* Using when attaching the sound bar to a wall



Spacer x 2

* Using when attaching the
sound bar to a wall

Features

Enjoy powerful and realistic sound from the sound bar with built-in subwoofer, and easy installation and connection to a TV and other devices.

• AIR SURROUND XTREME

Enjoy 7.1 channel surround sound, which creates a wide and deep soundstage, as if speakers are set not only on the left and right, but also behind of the listener (p.9).

• Sophisticated sound technology

Enjoy powerful bass sound for the surround playback with the Yamaha original bass boost technology.

• Bluetooth® connection Bluetooth® (YAS-103 only)

Content on a Bluetooth compatible smartphone, tablet, or computer can be played back easily (p.10).

You can enjoy deep and fresh sound as close to the original by the Compressed Music Enhancer. Also, you can operate the sound bar easily using the dedicated controlling application “HOME THEATER CONTROLLER.”

• TV's remote control learning function

Operate the sound bar with the TV's remote control (p.12).

• TV Remote Repeater function

Enables the TV's remote signal to path through the sound bar. If the installed sound bar blocks the TV's remote sensor, the TV's remote will not work. This function provides a convenient solution (p.14).

• Clear voice

Makes voice sound (such as dialogues and narrations) clear (p.9).

• UniVolume

Maintains consistent volume between channels, programs, commercials and sound sources (p.9).

Frequently asked questions

The following section covers popular functions and frequently asked questions about the sound bar.

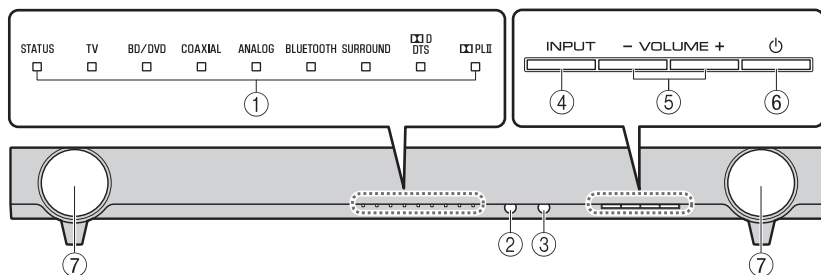
- | | |
|----|--|
| Q1 | Can I operate the sound bar using the remote control of the TV?
Switching between the remote controls of the TV and sound bar is inconvenient. |
| A1 | Yes. You can control the sound bar using your TV's remote control by the “TV's remote control learning” function (p.12).

This function is available only for the IR (infrared) remote control. Check your TV's remote control type. |
| Q2 | The TV's remote control does not work after the sound bar is installed in front of the TV. |
| A2 | The sound bar will transmit TV's remote control signals by the “TV Remote Repeater” function (p.14).

This function is available only for the IR (infrared) remote control. Check your TV's remote control type. |
| Q3 | Can I make voice sound more clear? |
| A3 | Yes. Dialogue in movies, TV news or sports programs, etc., can be made clearer using the “clear voice” function (p.9). |
| Q4 | How do I connect the sound bar if the TV does not have an optical output? |
| A4 | If the TV has analog audio outputs (red and white terminals), connect to ANALOG input of the sound bar with an RCA stereo cable (p.7). In this case, select ANALOG for the input source of the sound bar (p.8). |
| Q5 | Can I set the sound bar to turn off automatically when I am not using it? |
| A5 | Yes. Using the “auto power standby” function, the sound bar can be automatically turned off when it is not being used (p.14). |

Part names and functions (sound bar)

Sound bar (front panel)



① Indicators

Indicate the status of the sound bar. The indicators will dim automatically if no operations are performed for 5 seconds. Refer to “Operations” (p.8 to 9) for the main functions of the indicators.

② Remote control sensor

Receives infrared signals from the remote control of the sound bar (p.8).

③ TV's remote control sensor

Receives infrared signals from the TV's remote control when the TV Remote Repeater function is enabled (p.14).

④ INPUT key

Selects an input source to be played back.

⑤ VOLUME (+/-) keys

Adjust the volume (p.8).

⑥ (power) key

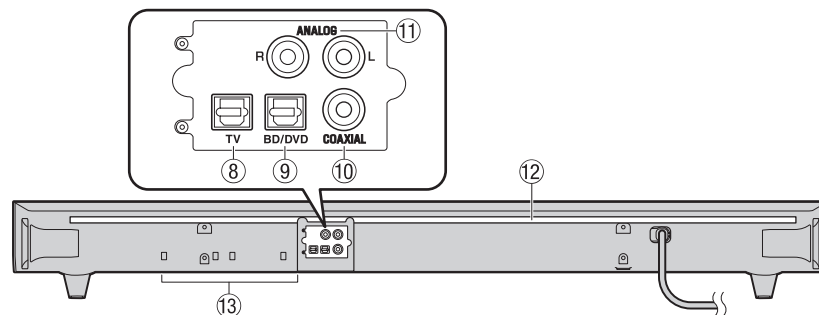
Turns on or off (standby) the sound bar (p.9).

HINT

- The sound bar may automatically turn off when the auto power standby function is enabled (p.14).

⑦ Speakers

Sound bar (rear panel)



⑧ TV input jack

For connecting to a TV with an optical cable (p.6).

⑨ BD/DVD input jack

For connecting to a playback device, such as a Blu-ray Disc (BD) player, with an optical cable.

⑩ COAXIAL input jack

For connecting an external device with a coaxial digital cable (p.7).

⑪ ANALOG input jacks

For connecting an external device with an RCA stereo cable (p.7).

⑫ IR flasher for TV Remote Repeater

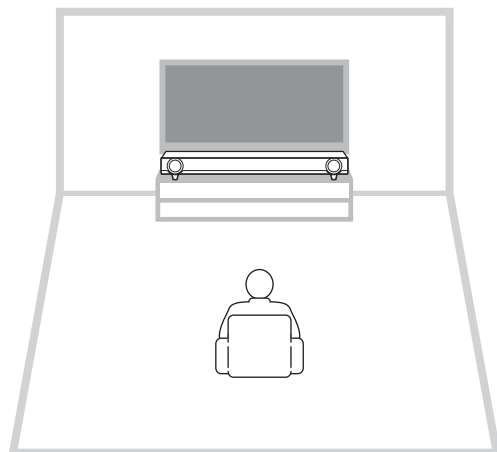
Transmits TV's remote control signals received at the remote control sensor to the TV (p.14).

⑬ Dual built-in subwoofers

The built-in subwoofers are located in the bottom part of the sound bar.

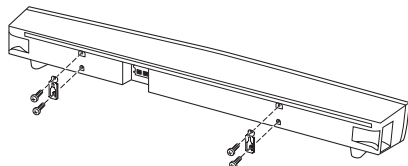
Installation

Place the sound bar on a flat surface such as on top of a TV cabinet.



Cautions

- Do not place the sound bar on/under any other devices such as BD player in a pile. Doing so may cause a malfunction due to vibrations.
- Do not touch the grilles (fabric parts) on the front of the sound bar.
- The sound bar contains acoustic suspension speakers. Do not place magnetically sensitive items (hard disk drive, etc.) near the sound bar.
- Depending on your installation environment, it may be better to connect the sound bar and external devices (such as a TV) before installing the sound bar.
- Do not place the sound bar within 50 mm (2") of the TV. The wall mount brackets on the rear panel can be removed as necessary.

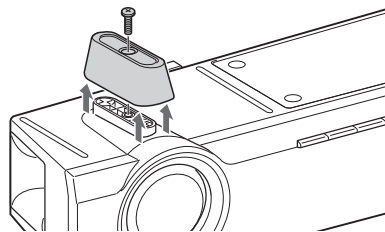


Removing the stands

When the sound bar blocks the view of the lower part of the TV screen or the remote control sensor of the TV, remove the stands (18 mm [3/4"]) of the sound bar to adjust its height.

HINT

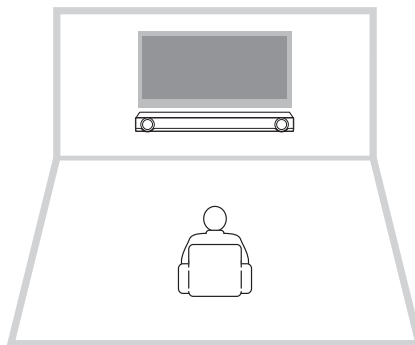
- Use the TV Remote Repeater function (p.14) to transmit TV's remote control signals via the sound bar.



NOTE

- Keep the stands and screws in a safe place for future use.

Attaching the sound bar to a wall

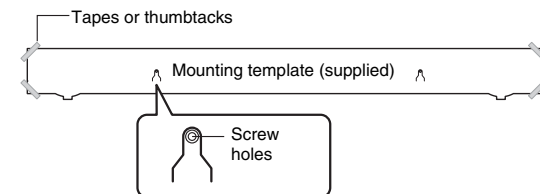


Cautions

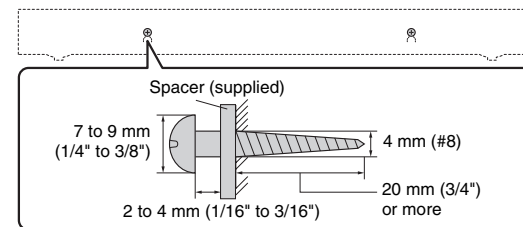
- When installing the sound bar on a wall, all installation work must be performed by a qualified contractor or dealer. The customer must never attempt to perform this installation work. Improper or inadequate installation could cause the sound bar to fall, resulting in personal injury.
- Do not attach the sound bar to a wall that is made of weak materials such as plaster or veneered woods. Doing so may cause the sound bar to fall.
- Make sure you use commercially available screws that can support the weight of the installation (specified in Step 2 on the right). Using clamps other than specified screws, such as short screws, nails, and two-sided tape, may cause the sound bar to fall.

How to install on the wall

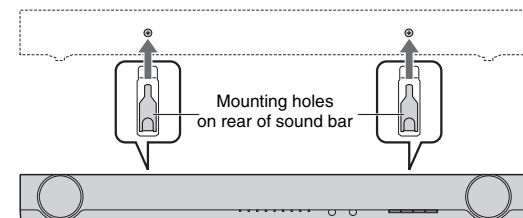
1 Attach the mounting template on a wall and mark for the screw holes.



2 Remove the mounting template from the wall, then install commercially available screws and supplied spacers (as illustrated below) at the points marked on the wall.



3 Hang the sound bar on the screws.



Cautions

- Fix the cables in place where they will not become loose. If your foot or hand accidentally gets caught on a loose cable, the sound bar may fall.
- Check that the sound bar is fixed securely after the installation. Yamaha will bear no responsibility for any accidents caused by improper installations.

Connections

Connect to a TV (or other peripheral device).

CAUTIONS

- Do not connect the power cable of the sound bar to the AC wall outlet before making connections.
- Do not use excessive force when inserting the cable plug. Doing so may damage the cable plug or AC wall outlet.

1 Connect the TV and sound bar with the optical cable (supplied).

Remove the cap of the optical cable and check the direction of the plug.



2 Connect the power cable of the sound bar to an AC wall outlet.

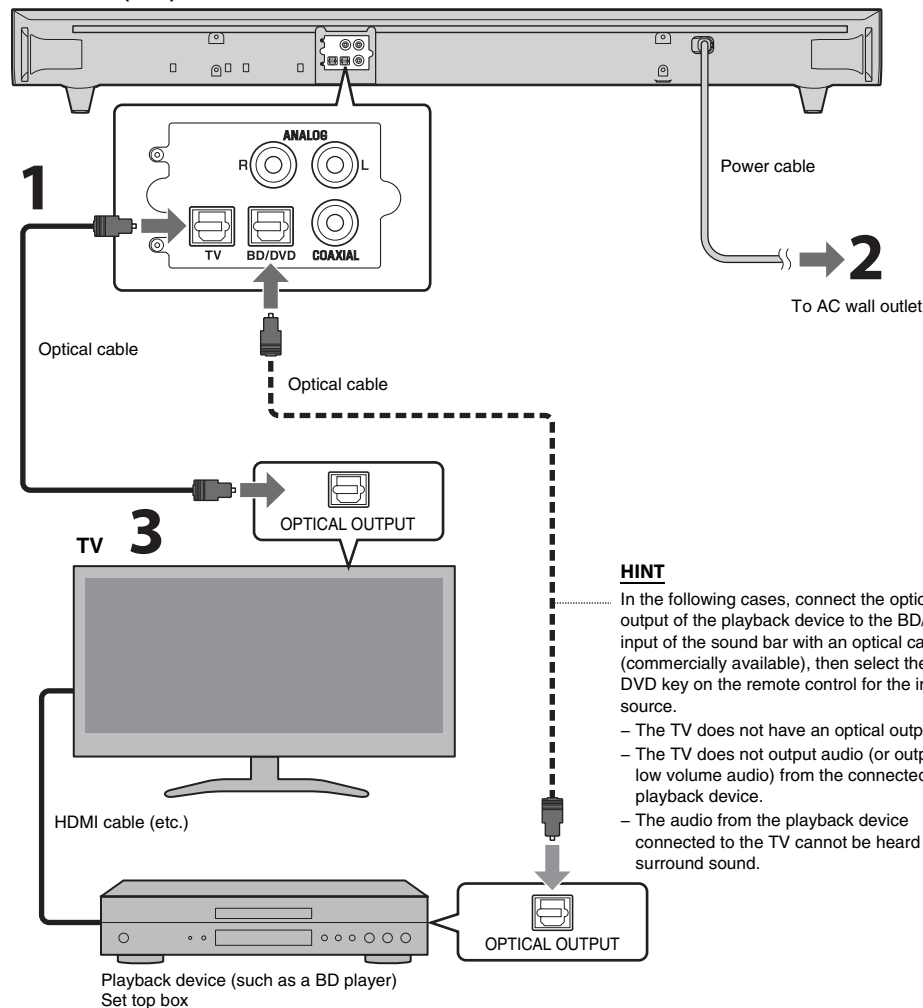
3 Set the TV as follows.

- Set the TV volume to minimum.
- Disable the TV built-in speaker output (if available).

HINT

- If a setting to disable the speaker output is not available on your TV, you may disable it by connecting headphones to the headphone jack on the TV. For details, refer to the manuals of the TV.
- The TV, BD/DVD and COAXIAL input jacks support the following audio signals.
 - PCM (2 channel)
 - Dolby Digital (up to 5.1 channel)
 - DTS Digital Surround (up to 5.1 channel)

Sound bar (rear)



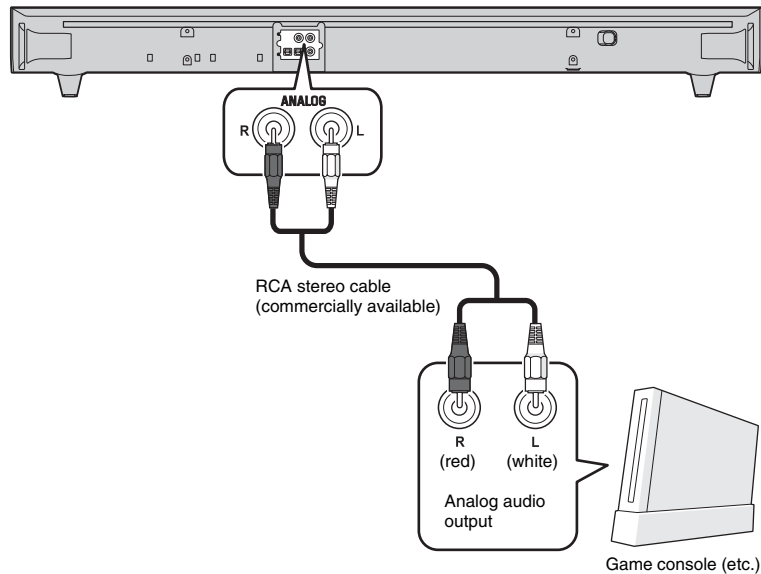
HINT

In the following cases, connect the optical output of the playback device to the BD/DVD input of the sound bar with an optical cable (commercially available), then select the BD/DVD key on the remote control for the input source.

- The TV does not have an optical output.
- The TV does not output audio (or outputs low volume audio) from the connected playback device.
- The audio from the playback device connected to the TV cannot be heard as surround sound.

Analog connection of an external device (game console)

You can connect an external device, such as a game console or TV that does not have an optical output, to the ANALOG input jacks of the sound bar.

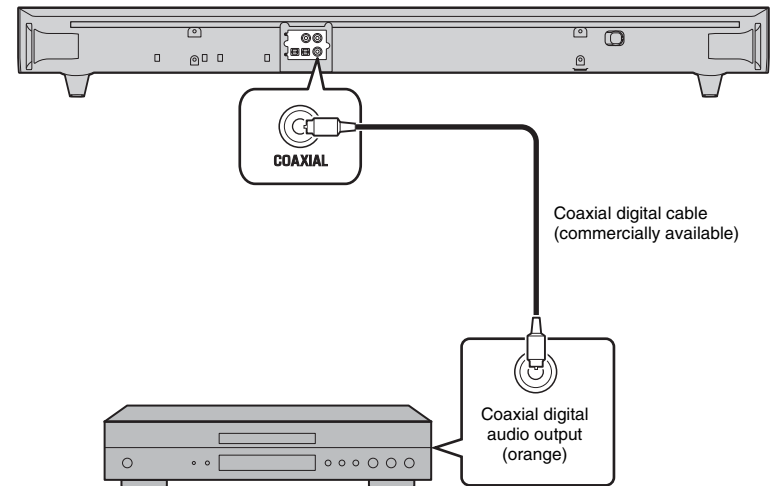


NOTE

- Make sure the left (L) and right (R) channels are connected correctly.
- Select the ANALOG key on the remote control for the input source.

Digital connection of an external device

You can connect an external device that has a coaxial digital audio output, such as a DVD player, to the COAXIAL input jack of the sound bar.



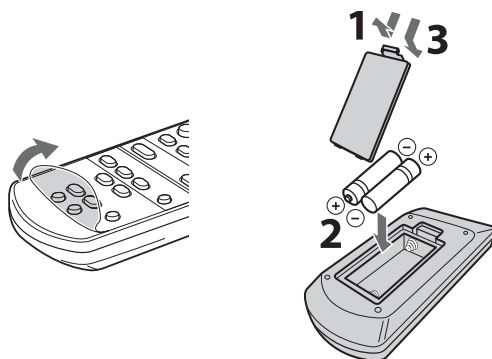
NOTE

- Select the COAXIAL key on the remote control for the input source.

Operations

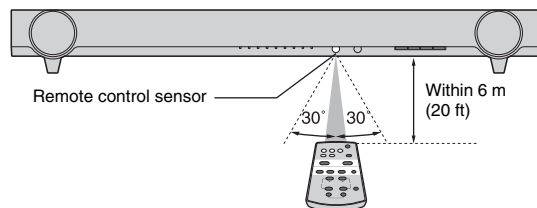
Preparing the remote control

Peel off the protection sheet before use.



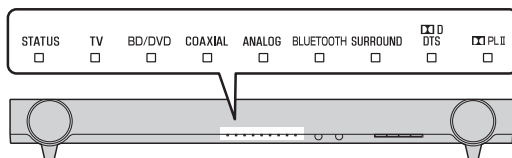
Operating range of the remote control

Remain within the operating range shown below.



Indicators

The indicators on the front panel flash or light up, to indicate the operation and setting status.



Input keys

Select an input source to be played back.

- TV** TV audio
- BD/DVD** Audio from a device connected to the BD/DVD input jack
- COAXIAL** Audio from a device connected to the COAXIAL input jack
- ANALOG** Audio from a device connected to the ANALOG input jack
- BLUETOOTH (YAS-103 only)** Audio from a *Bluetooth* connected device

The indicator for the selected input source lights up. (Example: when TV is selected)



HINT

- To play audio of the playback device connected to the TV or to watch videos of the playback device, set the TV's input source to the playback device.
- For details on *Bluetooth* connection, refer to "Listening to the sound from a *Bluetooth* device (YAS-103 only)" (p.10).

SUBWOOFER keys (+/-)

Adjust the volume of the subwoofer.



VOLUME keys (+/-)

Adjust the volume of the sound bar.

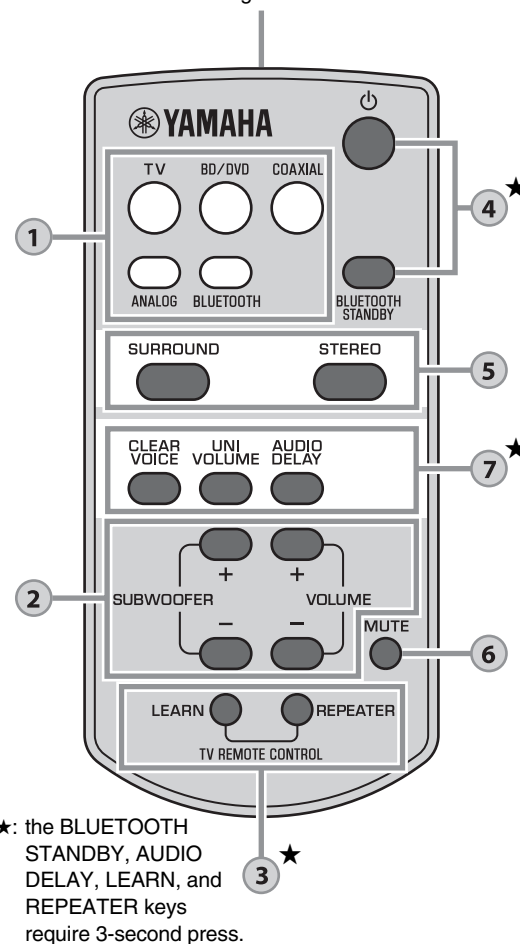


LEARN key★

Sets the sound bar to the TV's remote control learning mode (p.12).

Remote control signal transmitter

Transmits infrared signals.




★: the BLUETOOTH STANDBY, AUDIO DELAY, LEARN, and REPEATER keys require 3-second press.

REPEATER key★


Enables/disables the TV Remote Repeater function (p.14).

(power) key

Turns on or off (standby) the sound bar.

STATUS  Green (turned on)

STATUS  Red (*Bluetooth* standby)


STATUS  Off (turned off)

BLUETOOTH STANDBY key★ (YAS-103 only)

Enables/disables the *Bluetooth* standby mode.
(p.11).


SURROUND and STEREO keys


Switch between surround and stereo (2 channel) playback. When surround playback is selected, you can enjoy a realistic sound effect using Yamaha's exclusive AIR SURROUND XTREME.

SURROUND  Lights up (surround playback)

STEREO  Off (stereo playback)










HINT

- When 2 channel stereo signals are played in surround, the  PLII indicator lights up.

 PLII Lights up (Dolby Pro Logic II)

MUTE key

Mutes the audio output. Press the key again to unmute.

Flash (on mute)

CLEAR VOICE key

Enables/disables the clear voice function. When this function is enabled, you can enjoy clear voice sounds while watching movies, TV dramas, news programs or sports programs.

Flash 3 times (enabled), flash once (disabled)

UNIVOLUME key

Enables/disables the UniVolume function. When this function is enabled, consistent volume is maintained between channels, programs, commercials and sound sources.

Flash 3 times (enabled), flash once (disabled)

HINT

- The UniVolume function is automatically disabled when BLUETOOTH is selected as the input source.

AUDIO DELAY key★

Adjusts the audio delay to synchronize the sound with the video when the video image on the TV may seem delayed with respect to the sound. Follow the procedure below to adjust the audio delay.

1 Hold down AUDIO DELAY for more than 3 seconds.

The left most indicator flashes.

2 Press SUBWOOFER (+/-) to adjust the audio delay.

Smaller delay (–)  Larger delay (+)


3 To finish the adjustment, press AUDIO DELAY.


HINT


- The adjustment will be finished automatically if no operations are performed for 20 seconds.

Decoder indication

The sound bar supports the following audio signals. You can check the type of the input audio signal by the color of the indicator.

 Green (Dolby Digital), Red (DTS Digital Surround)

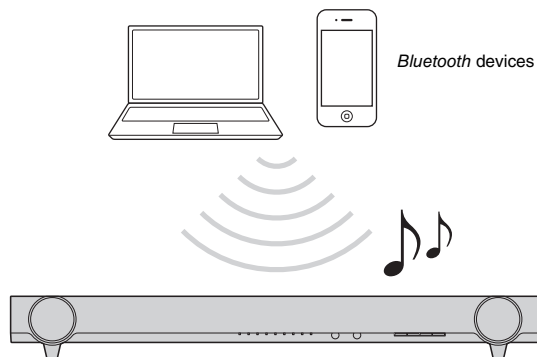
 Off (PCM)

 Off (PCM)

Listening to the sound from a *Bluetooth* device (YAS-103 only)

You can listen to the wireless sound from a *Bluetooth* device, such as a smartphone or digital music player.

See also the operating manual of the *Bluetooth* device for more details.



Perform the following steps on the *Bluetooth* device to be connected.

For the first *Bluetooth* connection

Pairing a *Bluetooth* device with the sound bar

For subsequent *Bluetooth* connection

Playing back audio from a *Bluetooth* device on the sound bar

Pairing a *Bluetooth* device with the sound bar

When connecting to a *Bluetooth* device for the first time, “pairing” between the device and sound bar is required. “Pairing” is necessary for each *Bluetooth* device you use. Once “pairing” is completed, subsequent connection will be made automatically.

- 1 Press the BLUETOOTH key on the sound bar’s remote control to select *Bluetooth* as the input source.**

The BLUETOOTH indicator on the front panel lights up in green.



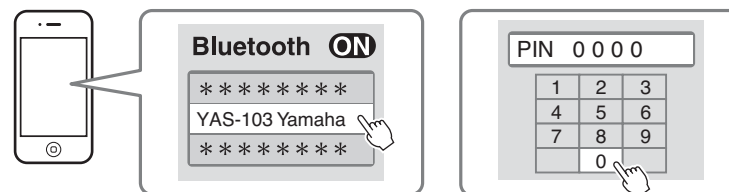
BLUETOOTH
Lights up


- 2 Turn on the *Bluetooth* compatible device to be paired, and perform pairing.**

The operation varies depending on the device. Refer to the operation manual of the device.

- 3 Select “YAS-103 Yamaha” in the *Bluetooth* device list on the device.**

If a passkey (PIN) is required, enter the number “0000”.



When pairing is completed,  or a completion message appears.

NOTE

- Perform pairing with the *Bluetooth* device and sound bar within 10 meters (33 ft) of each other.
- Up to eight *Bluetooth* devices can be pairing with the sound bar. If a ninth device is paired, the oldest pairing information is deleted.
- If pairing information for a device is deleted, to use that device again, pairing of the device is required again.
- If a *Bluetooth* device is already connected to the sound bar, terminate that *Bluetooth* connection, then perform pairing with the new device.
- Refer to “Troubleshooting” (p.15) for troubleshooting *Bluetooth* connection.

Playing back audio from a *Bluetooth* device on the sound bar

- 1 With the sound bar turned on, press the **BLUETOOTH** key on the sound bar's remote control to select *Bluetooth* as the input source.

The **BLUETOOTH** indicator on the front panel lights up in green.



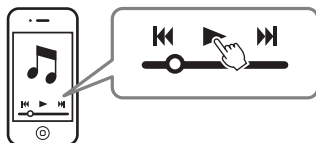
BLUETOOTH
■
Lights up

- 2 Turn on the *Bluetooth* device.

When *Bluetooth* connection is made correctly, the **BLUETOOTH** indicator of the sound bar flashes 3 times.

BLUETOOTH
■
Flashes 3 times

- 3 Play back a song on the device.



NOTE

- Perform *Bluetooth* connection with the device and sound bar within 10 meters (33 ft) of each other.
- It may be necessary to select "YAS-103 Yamaha" in the *Bluetooth* device list again, in the event that a connection problem occurs. You may have to change the output setting to output audio to the sound bar, depending on the *Bluetooth* device you are using.
- Adjust the volume level of the *Bluetooth* device as required.
- If a *Bluetooth* device is already connected to the sound bar, terminate that *Bluetooth* connection, then connect with the new device.

Terminating *Bluetooth* connection

Bluetooth connection is terminated in the following cases. When the *Bluetooth* connection is terminated, the **BLUETOOTH** indicator flashes once.

- The *Bluetooth* compatible device is turned off.
- The **BLUETOOTH** key on the sound bar's remote control is pressed for more than 3 seconds.
- The sound bar is turned off.

Using the *Bluetooth* standby mode

The *Bluetooth* standby mode allows you to turn on (or off) the sound bar automatically, that interlocked by the operation of the *Bluetooth* device.

How to set

With the sound bar turned on, hold down the **BLUETOOTH STANDBY** key on the sound bar's remote control for more than 3 seconds.

Holding down the **BLUETOOTH STANDBY** key for 3 seconds each time toggles the mode between enabled and disabled.



Flash 3 times (enabled), flash once (disabled)

When the *Bluetooth* standby mode is enabled and the sound bar is turned off, the **STATUS** indicator lights up in red.

STATUS
■
Lights up (red)

Functions available on *Bluetooth* devices with *Bluetooth* standby mode enabled

Power on interlock function (when the sound bar is turned off)

When *Bluetooth* connection is made on the device, the sound bar will turn on and will be ready to play back sound from the device.

Power off interlock function (when the sound bar is turned on)

The sound bar will be turned off when *Bluetooth* connection is terminated on a *Bluetooth* device. (Only when **BLUETOOTH** is selected as the input source.)

Using the **HOME THEATER CONTROLLER** application

By installing the dedicated free application "HOME THEATER CONTROLLER" to a *Bluetooth* device, such as a smartphone, you can perform various operations easily and conveniently with the *Bluetooth* device. (Setting items: basic operation, sound-field, sound adjustments)

For details on "HOME THEATER CONTROLLER", see the product information on our website.

6 Teach the sound bar the “Volume (+)” code of the TV’s remote control.

6-1 Press VOLUME (+) on the front panel of the sound bar.



6-2 While pointing your TV’s remote control at the remote control sensor, hold down the volume (+) key for more than 1 second twice or three times.

Result	Bleep/buzzer	Indicators
Successfully learned	Once	<div><div>□</div><div></div><div>□</div><div>□</div><div></div><div>□</div><div></div><div>□</div><div>□</div></div> <div>Lights up</div>
Failed to learn * Repeat from Step 6-1.	Twice	<div><div>□</div><div></div><div></div><div></div><div></div><div></div><div></div><div>□</div><div>□</div></div> <div>Flash</div>

7 Teach the sound bar the “Power” code of the TV’s remote control.

7-1 Press (power) on the front panel of the sound bar.



7-2 While pointing your TV’s remote control at the remote control sensor, hold down the power key for more than 1 second twice or three times.

Result	Bleep/buzzer	Indicators
Successfully learned	Once	<div><div>□</div><div></div><div>□</div><div>□</div><div>□</div><div></div><div>□</div><div>□</div></div> <div>Lights up</div>
Failed to learn * Repeat from Step 7-1.	Twice	<div><div>□</div><div></div><div></div><div></div><div></div><div></div><div></div><div>□</div><div>□</div></div> <div>Flash</div>

8 To finish the learning mode, press the LEARN key on the sound bar’s remote control.

This completes the necessary settings. Now you can operate the sound bar with the TV’s remote control’s mute key, volume keys, or power key.

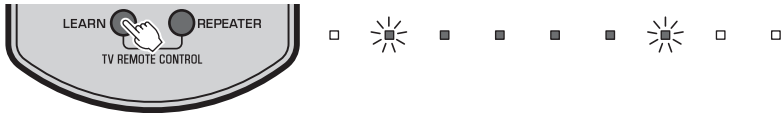
HINT

- The learning mode will be finished automatically if no operations are performed for 5 minutes.
- Set the TV volume to minimum. When you turn up the volume of the sound bar with the TV’s remote control, the volume of the TV may be turned up at the same time. In this case, follow Step 3 in “Connections” (p.6) to change the TV setting.
- You can press the (power) key on the sound bar’s remote control to finish leaning mode.

Clearing all programmed functions

1 With the sound bar turned off, hold down the LEARN key on the sound bar’s remote control for more than 3 seconds. (for entering the learning mode)

When the sound bar is in the learning mode, the indicators on the front panel flash as shown below.



2 Hold down INPUT on the front panel of the sound bar for more than 3 seconds.



If the clearing is completed, you will hear the bleep sound three times.

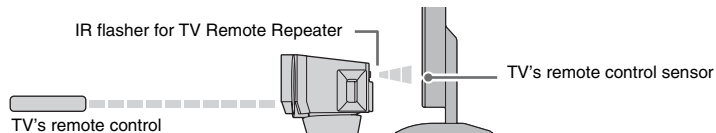
3 Press the LEARN key on the sound bar’s remote control.

Sending the TV's remote signal through the sound bar (TV Remote Repeater function)

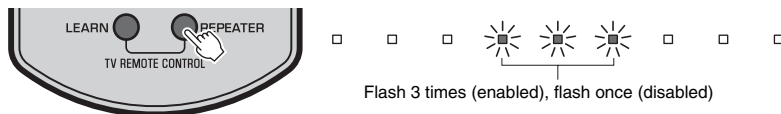
When the TV Remote Repeater function is enabled, the sound bar relays the TV's remote signal received by the front sensor to the rear transmitter. This function should be enabled when you place the sound bar in front of your TV and you cannot operate your TV with the TV's remote control.

NOTE

- This function is available only when your TV's remote control uses infrared signals.



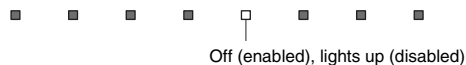
- 1 Turn on the sound bar.
- 2 Hold down the REPEATER key on the sound bar's remote control for more than 3 seconds to enable/disable the TV Remote Repeater function.



This completes the necessary settings. When the TV Remote Repeater function is enabled, you can operate your TV from the TV's remote control via the sound bar.

HINT

- The TV Remote Repeater function is disabled by default.
- If the power cable of the sound bar is connected to an AC wall outlet and when the TV Remote Repeater function is enabled, the function is usable even when the sound bar is turned off.
- If you have made the sound bar learn the volume (+) operation (p.13), the volume of the TV may be turned up when you turn up the volume of the sound bar with the TV's remote control. In this case, follow Step 3 in "Connections" (p.6) to change the TV setting.
- You can check the status of the TV Remote Repeater function by the center indicator when turning on the sound bar.



Setting the auto power standby function

By enabling the auto power standby function, you can avoid forgetting to turn off the sound bar after use, or if you fall asleep while watching TV.

NOTE

- When the auto power standby function is enabled and one of the following conditions is met, the sound bar will automatically turn off.
 - No operations for 8 hours
 - No audio input and no operations for 20 minutes when BLUETOOTH is selected as the input source.

- 1 With the sound bar turned off, hold down the MUTE key on the sound bar's remote control for more than 3 seconds.

You can check the status of the auto power standby function when turning on the sound bar.



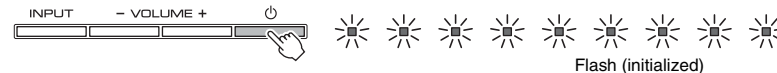
HINT

- Initial setting varies depending on the country or region.
 - U.K. and Europe models: enabled
 - Other models: disabled

Initializing the sound bar

Follow the procedure below to initialize the sound bar.

- 1 Turn off the sound bar.
- 2 Hold down the power button on the front panel of the sound bar for more than 3 seconds.




Troubleshooting

Refer to the table below when the sound bar does not function properly. If the problem you are experiencing is not listed below or if the instructions below do not help, turn off the sound bar, disconnect the power cable, and contact the nearest authorized Yamaha dealer or service center.

First, check the following:

- ① **The power cables of the sound bar, TV and playback devices (such as BD players) are connected to AC wall outlets securely.**
- ② **The sound bar, TV and playback devices (such as BD players) are turned on.**
- ③ **The connectors of each cable are securely inserted in to jacks on each device.**

Power and system


Problem	Cause	Remedy
The power turns off immediately.	The auto power standby function worked. When the auto power standby function is enabled and one of the following conditions is met, the sound bar will automatically turn off. - No operations for 8 hours - No audio input and no operations for 20 minutes when BLUETOOTH is selected as the input source.	Disable the auto power standby function (p.14).
The power cannot be turned on.	The protection circuitry has been activated three times consecutively. (If you try to turn on the power in this condition, the STATUS indicator flashes.)	For product protection, the power cannot be turned on. Unplug the power cable from the AC wall outlet and contact the nearest authorized Yamaha dealer or service center.
The sound bar is not reacting.	The internal microcomputer is frozen, due to an external electric shock (such as lightning or excessive static electricity) or to a drop in the power supply voltage.	Hold down  (power) on the front panel of the sound bar for more than 10 seconds to reboot it. (If the problem persists, disconnect the power cable from the AC wall outlet and plug it again.)
The sound bar operates by itself.	Another <i>Bluetooth</i> device is being operated nearby.	Terminate <i>Bluetooth</i> connection of the sound bar (p.11).
TV's 3D glasses do not work.	The sound bar is blocking the 3D glasses transmitter of your TV.	Check the position of the 3D glasses transmitter of your TV and adjust the position of the sound bar. If necessary, remove the stands of the sound bar (p.5).

Audio

Problem	Cause	Remedy
No sound.	Another input source is selected.	Select an appropriate input source (p.8).
	The mute function is activated.	Cancel the mute function (p.9).
	The volume is too low.	Turn up the volume (p.8).
No sound is coming from the subwoofer.	The volume of the subwoofer is too low.	Turn up the volume of the subwoofer (p.8).
	The playback source does not contain low-frequency signals.	Play back a sound source containing low-frequency signals.
The volume decreases when the sound bar is turned on.	The automatic volume adjustment function worked. To prevent excessive loudness, the sound bar automatically controls its volume within a certain level when the sound bar is turned on.	If necessary, turn up the volume (p.8).
No surround effect.	Stereo playback is selected.	Select surround playback (p.9).
	The volume is too low.	Turn up the volume (p.8).
	The TV or playback device is set to output 2 channel audio (such as PCM) only.	Change the digital audio output setting on the TV or playback device to Dolby Digital or BitStream.
	The audio is output from the TV built-in speakers.	Set the TV volume to minimum (p.6).
Noise is heard.	The sound bar is too close to another digital or high-frequency device.	Move those devices away from the sound bar.

Remote control

Problem	Cause	Remedy
The sound bar cannot be controlled using the remote control.	The sound bar is out of the operating range.	Use the remote control within the operating range (p.8).
	The batteries are weak.	Replace with new batteries (p.8).
	The remote control sensor of the sound bar is exposed to direct sunlight or strong lighting.	Adjust the lighting angle, or reposition the sound bar.
The TV cannot be controlled using the TV's remote control.	The remote control sensor of the TV is blocked by the sound bar.	Use the TV Remote Repeater function (p.14) or remove the stands of the sound bar so that the TV's remote control sensor is not blocked (p.5).
	There may be any problem with the TV or TV's remote control.	Refer to the manuals of the TV.
The TV cannot be controlled by using the TV Remote Repeater function.	The TV Remote Repeater function is disabled.	Enable the TV Remote Repeater function (p.14).
	The TV's remote control does not use infrared signals. (Some remote controls may not work even if it uses infrared signals.)	The TV Remote Repeater function cannot be used in this case. Adjust the position of the sound bar so that the remote control sensor of the TV is not blocked by the sound bar and use the TV's remote control to operate the TV.
	The sound bar and TV are too close or too far from one another.	Move the sound bar away from the TV more than 50 mm (2") (p.5). If necessary, remove or attach the stands of the sound bar to adjust height for the IR flasher (for TV Remote Repeater) of the sound bar positioning in front of the remote control sensor of the TV (p.5).
	There is any obstacle (such as cables) between the sound bar and TV.	Remove the obstacle between the sound bar and TV.
	TV is not receiving the remote control signal well since the signals from the TV's remote control and IR flasher (for TV Remote Repeater) of the sound bar are interfering.	Disable the TV Remote Repeater function (p.14).

The sound bar does not learn TV's remote control operations.	The TV's remote control key was not held down long enough.	Hold down the key for more than 1 second twice or three times (p.12).
	The TV's remote control does not use infrared signals. (Some remote controls may not work even if it uses infrared signals.)	The TV's remote control learning function cannot be used in this case. Use the sound bar's remote control to operate the sound bar.
	The position where you operated the TV's remote control is not appropriate.	Operate the TV's remote control at the appropriate position (p.12).
	The batteries of the TV's remote control are weak.	Replace with new batteries.
	The remote control sensor of the sound bar is exposed to direct sunlight or strong lighting.	Adjust the lighting angle, or reposition the sound bar.
	The transmission of the remote control signal was disturbed by the TV screen light.	Turn off the TV and perform the learning operation again (p.12).
Sound is coming from the TV when the sound bar volume is turned up with the TV's remote control. (when TV's remote control learning function is used)	Audio output is enabled on the TV.	Change the TV setting to disable the TV speaker output. If a setting to disable the speaker output is not available on your TV, try the following methods. - Connect headphones to the headphone jack on the TV. - Set the TV volume to minimum.
The power of the sound bar and of the TV switch in the opposite direction. (For example, the TV is turned off if the sound bar is turned on.) (when TV's remote control learning function is used)	The power of the TV was on when you performed the learning operation.	Press the power key on the TV and  (power) on the front panel of the sound bar to turn on them and then press the power key on the TV's remote control to turn off them.

Bluetooth (YAS-103 only)

Problem	Cause	Remedy
Cannot make the sound bar paired with the Bluetooth device.	BLUETOOTH is not selected as the input source.	Select BLUETOOTH as the input source.
	The device does not support A2DP.	Perform pairing operations with a device which supports A2DP.
	A <i>Bluetooth</i> adaptor, etc. that you want to pair with the sound bar has a password other than "0000".	Use a <i>Bluetooth</i> adaptor, etc. whose password is "0000".
	The sound bar and device are too far apart.	Move the device closer to the sound bar.
	There is a device (microwave oven, wireless LAN, etc.) outputs signals in the 2.4 GHz frequency band nearby.	Move the sound bar away from the device that is emitting radio frequency signals.
	Another <i>Bluetooth</i> device is connected.	Terminate current <i>Bluetooth</i> connection, and perform pairing with the new device.
Cannot make a Bluetooth connection.	Another <i>Bluetooth</i> device is connected.	The sound bar cannot make multiple <i>Bluetooth</i> connections. Terminate current <i>Bluetooth</i> connection, and make connection for the desired device.
	More than nine devices are paired and the oldest pairing information is deleted.	Perform pairing again. The sound bar can retain pairing information for up to eight devices. When pairing a ninth device, the oldest pairing information will be deleted.

No sound is produced or the sound is interrupted during playback.	The <i>Bluetooth</i> connection of the sound bar with the device is disconnected.	Perform <i>Bluetooth</i> connection operations again (p.10).
	The sound bar and device are too far apart.	Move the device closer to the sound bar.
	There is a device (microwave oven, wireless LAN, etc.) outputs signals in the 2.4 GHz frequency band nearby.	Move the sound bar away from the device that is emitting radio frequency signals.
	The device's <i>Bluetooth</i> function is off.	Activate the <i>Bluetooth</i> function of the device.
	The device is not set to send <i>Bluetooth</i> audio signals to the sound bar.	Check that the <i>Bluetooth</i> function of the device is set properly.
	Playback on the device has not been performed.	Perform playback on the device.
	The device's volume is set to minimum.	Turn up the volume level.

Specifications

Item		specifications
Amplifier Section	Maximum Rated Output Power	Front L/R 30 W x 2 ch
		Subwoofer 60 W
Front Speaker Section	Type	Acoustic suspension type (Non-magnetic shielding type)
	Driver	6.5 cm (2-1/2") cone x 2
	Frequency Response	150 Hz to 22 kHz
Subwoofer Section	Type	Bass reflex type (Non-magnetic shielding type)
	Driver	7.5 cm (3") cone x 2
	Frequency Response	50 Hz to 150 Hz
Decoder	Supported audio signal (TV, BD/DVD)	PCM (2ch) Dolby Digital DTS Digital Surround
Input Jacks	Digital (Optical)	2 (TV, BD/DVD)
	Digital (Coaxial)	1 (COAXIAL)
	Analog (RCA)	1 (ANALOG)
Bluetooth (YAS-103 only)	Bluetooth version	Ver. 2.1 +EDR
	Supported protocols	A2DP, SPP
	Supported codecs	SBC, MPEG4 AAC
	Wireless output	Bluetooth Class 2
	Maximum communication distance	10 m ([33 ft] without obstructions)

General	Power Supply	U.S.A. and Canada models: AC 120 V, 60Hz Taiwan model: AC 110—120 V, 50/60Hz Other models: AC 220—240 V, 50/60Hz
	Power Consumption	22 W
	Standby Power Consumption	Less than 0.5 W
	Bluetooth standby power consumption (YAS-103 only)	0.6 W
	Dimensions (W x H x D)	890 x 91 x 115 mm (not including stands and brackets) (35" x 3-5/8" x 4-1/2")
		890 x 109 x 121 mm (including stands and brackets) (35" x 4-1/4" x 4-3/4")
	Weight	4.0 kg (8.8 lbs)

* Specifications are subject to change without notice.



This system employs new technologies and algorithms that make it possible to achieve 7.1 channel surround sound with only front speakers, and without using wall reflections.

UniVolume

"UniVolume" is a trademark of Yamaha Corporation.



(YAS-103 only)

Bluetooth is a registered trademark of the Bluetooth SIG and is used by Yamaha in accordance with a license agreement.



Manufactured under license from Dolby Laboratories. Dolby, Pro Logic and the double-D symbol are trademarks of Dolby Laboratories.



For DTS patents, see <http://patents.dts.com>. Manufactured under license from DTS Licensing Limited. DTS, the Symbol, & DTS and the Symbol together are registered trademarks, and DTS Digital Surround is a trademark of DTS, Inc. © DTS, Inc. All Rights Reserved.

"Blu-ray Disc™", "Blu-ray™", and the logos are trademarks of the Blu-ray Disc Association.

The following description applies to YAS-103 only.

Bluetooth

- *Bluetooth* is a technology for wireless communication between devices within an area of about 10 meters (33 ft) employing the 2.4 GHz frequency band, a band which can be used without a license.

Handling Bluetooth communications

- The 2.4 GHz band used by *Bluetooth* compatible devices is a radio band shared by many types of equipment. While *Bluetooth* compatible devices use a technology minimizing the influence of other components using the same radio band, such influence may reduce the speed or distance of communications and in some cases interrupt communications.
- The speed of signal transfer and the distance at which communications is possible differs according to the distance between the communicating devices, the presence of obstacles, radio wave conditions and type of equipment.
- Yamaha does not guarantee all wireless connections between this unit and devices compatible with *Bluetooth* function.

Information for Users on Collection and Disposal of Old Equipment and Used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.



By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.



For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.



[Information on Disposal in other Countries outside the European Union]
These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Pb

Important Notice: Guarantee Information for customers in EEA* and Switzerland**English**

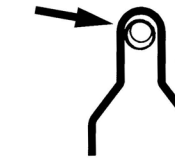
For detailed guarantee information about this Yamaha product, and Pan-EEA* and Switzerland warranty service, please either visit the website address below (Printable file is available at our website) or contact the Yamaha representative office for your country.

* EEA: European Economic Area

<http://europe.yamaha.com/warranty/>



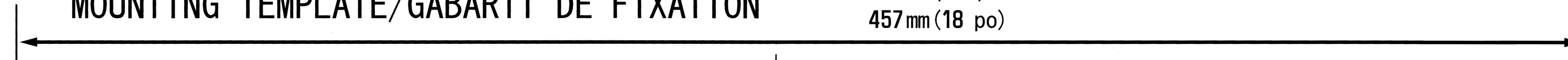
DRILL HERE / PERCER C'IC



FRAME SIZE : 890 mm x 88 mm (35" x 3 1/2")

DIMENSIONS DU CADRE : 890 mm x 88 mm (35 po x 3.5 po)

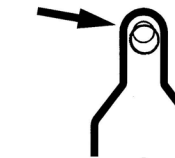
MOUNTING TEMPLATE/GABARIT DE FIXATION

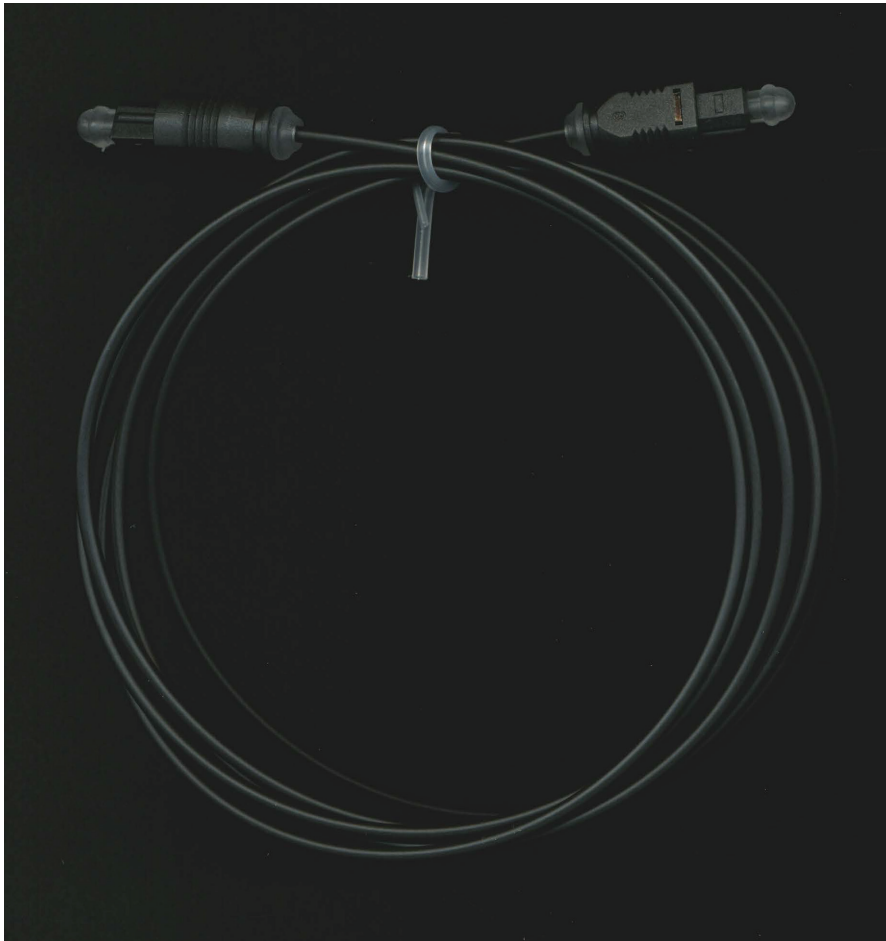


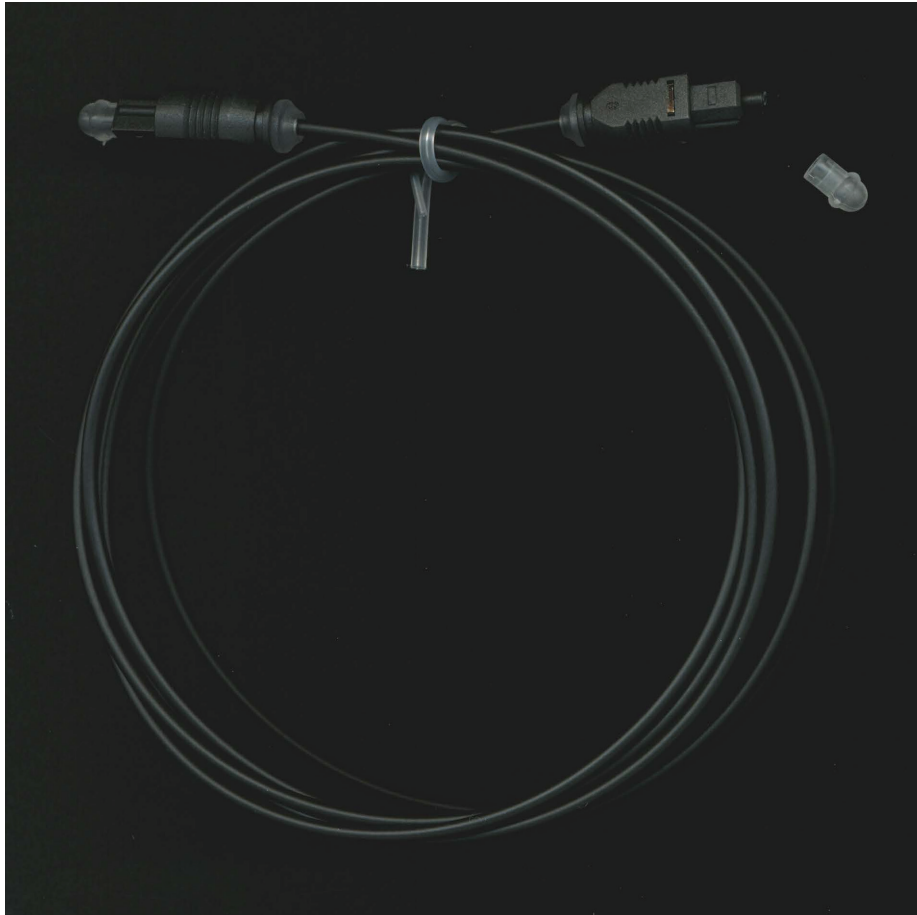
457 mm (18")

457 mm (18 po)

DRILL HERE / PERCER C'IC









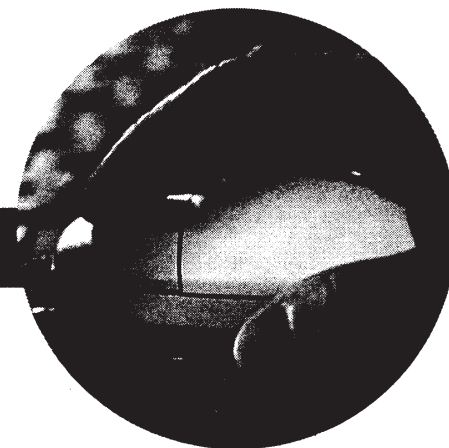
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Thank you for purchasing a new product from Yamaha Electronics. We'd like to continue providing you with high quality products and better service. So, we've made it simple to register your new product purchase online. Please take a few minutes to visit our website at **www.yamaha.com/YEC/registration/** and complete the information and questions included there. We appreciate your business and we look forward to hearing from you.

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Shanghai, China

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Singapore 530202, Singapore

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OTHER COUNTRIES

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Japan 430-8650

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YAMAHA

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THIS WARRANTY COVERS THE LISTED PRODUCTS AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR THE NUMBER OF YEARS IDENTIFIED BELOW.

Warranty Term

Type of Product

Duration of Warranty from Date of Purchase by or for the Original Owner

A/V and Stereo Receivers, Processor and Integrated Amplifiers, Separate Amplifiers and Preamplifiers, Tuners, CD Players and Changers, HDD Players and Recorders, Network Players, Powered Loudspeakers, Media Controllers and Speaker Systems purchased individually, as a pair, or as part of an Integrated or Packaged System.

..... 2 years

Cassette Decks, Blu-ray Disc Players, DVD Players and Changers, Integrated Systems (Receiver or Amplifier combined or on same chassis with CD, DVD or Blu-ray Disc Player), Desktop Audio Systems (i.e. TSX and PDX Series), Multimedia Speakers, Headphones, Earphones and Accessories.

..... 1 year

Coverage: YAMAHA will, at its option, repair or replace the product covered by this warranty if it becomes defective, malfunctions or otherwise fails to conform with this warranty under normal use and service during the term of this warranty, without charge for labor or materials. Repairs may be performed using new or refurbished parts that meet or exceed YAMAHA specifications for new parts. If YAMAHA elects to replace the product, the replacement may be a reconditioned unit. You will be responsible for any installation or removal charges and for any initial shipping charges if the product(s) must be shipped for warranty service. However, YAMAHA will pay the return shipping charges to any destination within the USA if the repairs are covered by the warranty. This warranty does not cover (a) damage, deterioration or malfunction resulting from accident, negligence, misuse, abuse, improper installation or operation or failure to follow instructions according to the Owner's Manual for this product; any shipment of the product (claims must be presented to the carrier); repair or attempted repair by anyone other than YAMAHA or an authorized YAMAHA Service Center; (b) any unit which has been altered or on which the serial number has been defaced, modified or removed; (c) normal wear, battery or battery replacement and any periodic maintenance; (d) deterioration due to perspiration, corrosive atmosphere or other external causes such as extremes in temperature or humidity; (e) damages attributable to power line surge or related electrical abnormalities, lightning damage or acts of God; (f) RFI/EMI (Interference/noise) caused by improper grounding or the improper use of either certified or uncertified equipment, if applicable; or (g) interference arising from the use of wireless communication devices (e.g. 2.4 GHz cordless telephones), or other radio frequency emitting products such as microwave ovens, whether such interference impairs the operation of the product or vice-versa. Consult the Owner's Manual for guidance on set-up procedures for minimizing the risks of interference. Any evidence of alteration, erasing or forgery of proof-of-purchase documents will cause this warranty to be void. This warranty covers only the Original Owner and is not transferable.

In Order to Obtain Warranty Service: Warranty service will only be provided for defective products within the Warranted Area. Contact your local authorized YAMAHA dealer who will advise you of the procedures to be followed. If this is not successful, contact YAMAHA at the address, telephone number or website shown below. YAMAHA may request that you send the defective product to a local authorized YAMAHA Servicer or authorize return of the defective product to YAMAHA for repair. For products requiring in-home service, contact your local authorized Yamaha dealer to arrange for service. If you are uncertain as to whether a dealer has been authorized by YAMAHA, please contact YAMAHA's Service Department at the number shown below, or check Yamaha's website at <http://usa.yamaha.com>. Product(s) shipped for service should be packed securely and must be accompanied by a detailed explanation of the problem(s) requiring service, together with the original or a machine reproduction of the bill of sale or other dated, proof-of-purchase document describing the product, as evidence of warranty coverage. Should any product submitted for warranty service be found ineligible therefore, an estimate of repair cost will be furnished and the repair will be accomplished only if requested by you and upon receipt of payment or acceptable arrangement for payment.

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